

408A

Sharp-Cutoff Pentode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

| | | |
|--------------------------------|------------|-------|
| Voltage (AC or DC) | 20.0 ± 1.0 | volts |
| Current at heater volts = 20.0 | 0.050 | amp |

Peak heater-cathode voltage:

| | | |
|---|----------|-------|
| Heater negative with respect to cathode | 100 max. | volts |
| Heater positive with respect to cathode | 100 max. | volts |

Direct Interelectrode Capacitances:^a

| | | |
|---|------|----|
| Grid No.1 to plate | 0.01 | pf |
| Grid No.1 to cathode & grid No.3 & internal shield, grid No.2, and heater | 4.0 | pf |
| Plate to cathode & grid No.3 & internal shield, grid No.2, and heater | 2.8 | pf |

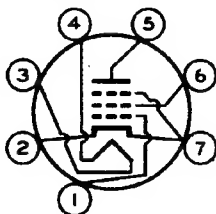
Characteristics, Class A₁ Amplifier:

| | | |
|---|------|--------|
| Plate Supply Voltage | 120 | volts |
| Grid-No.2 Supply Voltage | 120 | volts |
| Cathode Resistor ^b | 200 | ohms |
| Plate Resistance (Approx.) | 0.34 | megohm |
| Transconductance | 5000 | μmhos |
| Plate Current | 7 | ma |
| Grid-No.2 Current | 2.2 | ma |
| Grid-No.1 Voltage for maximum plate $\mu_a = 200$ | -10 | volts |

Mechanical:

| | |
|---|--|
| Operating Position | Any |
| Type of Cathode | Coated Unipotential |
| Maximum Overall Length | 1-3/4" |
| Maximum Seated Length | 1-1/2" |
| Length, Base Seat to Bulb Top (Excluding tip) | 1-1/8" ± 3/32" |
| Diameter | 0.650" to 0.750" |
| Dimensional Outline | See General Section |
| Bulb | T6-1/2 |
| Base | Small-Button Miniature 7-Pin (JEDEC No.E7-1) |
| Basing Designation for BOTTOM VIEW | 7BD |

Pin 1-Grid No.1
Pin 2-Cathode,
Grid No.3
Pin 3-Heater
Pin 4-Heater



Pin 5-Plate
Pin 6-Grid No.2
Pin 7-Cathode,
Grid No.3



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
4-63

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AMPLIFIER — Class A₁

Maximum Ratings, Absolute-Maximum Values:

PLATE VOLTAGE 180 max. volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE. . . 180 max. volts
GRID-No.2 VOLTAGE See *Grid-No.2 Input Rating Chart*
at front of Receiving Tube Section
GRID-No.1 (CONTROL-GRID) VOLTAGE:
Positive-bias value 0 max. volts
GRID-No. 2 INPUT:
For grid-No.2 voltages
up to 90 volts. 0.5 max. watt
For grid-No.2 voltages between 90 and 180 volts. . See *Grid-No.2 Input Rating Chart*
at front of Receiving Tube Section
PLATE DISSIPATION 1.7 max. watts

^a with external shield JEDEC No.316 connected to cathode.

^b Fixed-bias operation is not recommended.

